

Case 3468

***Clusiodes* Coquillett, 1904 (Diptera, CLUSIIDAE): proposed conservation of usage by designation of *Heteroneura albimana* Meigen, 1830 as the type species**

Owen Lonsdale

Plant Pest Diagnostics Branch, California Department of Food & Agriculture, 3294 Meadowview Road, Sacramento, CA 95832-1448, U.S.A. (e-mail: Neoxabea@hotmail.com)

Abstract. The purpose of this application, under Article 70.2 of the Code, is to conserve usage of the genus *Clusiodes* Coquillett, 1904 (replacement name for *Heteroneura* Fallén, 1823) by designating *H. albimana* Meigen, 1830 as the type species. It has been long overlooked that the type species of *Heteroneura* is actually *H. muscaria* Fallén 1823, a species now assigned to *Cnemacantha* Macquart, 1835 in the family LAUXANIIDAE Macquart, 1835. It is proposed that *H. albimana* be designated the type species of *Heteroneura* in order to maintain the current usage of the name *Clusiodes* for a widespread, regularly collected and frequently discussed taxon in the CLUSIIDAE Handlirsch, 1884.

Keywords. Taxonomy; nomenclature; CLUSIIDAE; *Heteroneura*; *Clusiodes*; druid flies; worldwide distribution.

1. The genus *Heteroneura* was established by Fallén (1823, p. 2) for three new species: *H. muscaria* Fallén, 1823 (p. 2), *H. geomyzina* Fallén, 1823 (p. 2) and *H. scatophagina* Fallén, 1823 (p. 3). No type species was designated. Of these, only *H. geomyzina* is currently classified as CLUSIIDAE; *H. muscaria* is now placed in the LAUXANIIDAE and *H. scatophagina* in the ASTEIIDAE Rondani, 1856.

2. *Heteroneura muscaria* Fallén, 1823 was subsequently designated as the type species of *Heteroneura* Fallén, 1823 by Zetterstedt (1838, column 784) in October 1838 (date from Evenhuis, 1997), but this designation has not been observed outside of that publication.

3. Seven years following Fallén (1823), Meigen (1830, p. 126) described three new species of *Heteroneura*, including *H. albimana* Meigen, 1830 (p. 128) from Switzerland (now known to be widely distributed in Europe and Russia). A redescription of *H. geomyzina* was also included.

4. Presumably unaware of any prior type designation, Curtis (1838, plate 721) designated *Heteroneura albimana* Meigen, 1830 as the type species of *Heteroneura* on 1 December 1838 (date from Evenhuis, 1997). The designation was probably a result of *H. albimana* being the only *Heteroneura* recognised in his publication, which surveyed the insects of Great Britain and Ireland.

5. The designation of *H. albimana* as the type species of *Heteroneura* by Curtis (1838) was accepted by a number of authors, including Westwood (1840, p. 152),

Johnson (1913, p. 97), Melander & Argo (1924, p. 13), Frey (1960, p. 15), Soós (1964, p. 7) and Lonsdale & Marshall (2007, p. 123).

6. Blanchard (1840, p. 628) treated *Heteroneura nubila* Meigen, 1830 (spelled as *Heteronevra Nubila*) as the type species of *Heteroneura*. Lonsdale & Marshall (2007) considered *H. nubila* to be a junior synonym of *H. albimana*.

7. Macquart (1835, p. 587) removed *Heteroneura muscaria* from *Heteroneura* and assigned it to his new genus *Cnemacantha* Macquart, 1835, making it the type species by monotypy. *Cnemacantha* is currently referred to the LAUXANIIDAE, while *Heteroneura* is currently placed in a different family, the CLUSIIDAE.

8. Following this new combination for *Heteroneura muscaria*, Zetterstedt (1848, p. 2787) designated *Heteroneura geomyzina* Fallén, 1823 as the type species of *Heteroneura*.

9. This invalid designation by Zetterstedt (1848) was accepted by Steyskal (1965, p. 807), Sasakawa (1977, p. 236), Soós (1984, p. 11) and Caloren & Marshall (1998, p. 263). However, *Heteroneura albimana*, which was designated as type prior to *H. geomyzina*, is more frequently collected, more frequently discussed, and has been recognised as type by more authors, including the last revisers of the genus, (Lonsdale & Marshall, 2007).

10. When Coquillett (1904, p. 93) realised that *Heteroneura* was preoccupied by a genus earlier described by Fallén (1810, p. 7), he proposed *Clusiodes* as the replacement name for *Heteroneura* Fallén, 1823, which, according to Article 67.8 of the Code (Type species of nominal genus-group taxa denoted by new replacement names), has the same type species of the name it replaced. In this case, the valid type species is *H. muscaria*, making *Clusiodes* a junior synonym of *Cnemacantha* Macquart, 1835 in the LAUXANIIDAE.

11. *Clusiodes*, as currently treated in the literature, comprises 31 described species distributed predominantly throughout the Holarctic Region. It is a regularly collected and frequently cited taxon that has been treated as a clusiid for over a century in at least 44 publications written by over 30 authors from Coquillett (1904) onwards. A record of the history and usage of *Clusiodes* is provided in Lonsdale & Marshall (2007), who recently redefined and revised the genus. A list of references is held by the Secretariat.

12. The International Commission of Zoological Nomenclature is accordingly asked:

- (1) to use its plenary power to set aside all previous type fixations for *Heteroneura* Fallén, 1823 and to designate *Heteroneura albimana* Meigen, 1830 as the type species;
- (2) to place on the Official List of Generic Names in Zoology the name *Clusiodes* Coquillett, 1904 (gender: masculine), type species *Heteroneura albimana* Meigen, 1830, as ruled in (1) above;
- (3) to place on the Official List of Specific Names in Zoology the name *albimana* Meigen, 1830, as published in the binomen *Heteroneura albimana* (specific name of the type species of *Heteroneura* Fallén, 1823, and subsequently *Clusiodes* Coquillett, 1904, as ruled in (1) above).

References

- Blanchard, C.E.** 1840. Histoire naturelle des insectes. Orthoptères, névroptères, hémiptères, hyménoptères, lépidoptères et diptères. Volume 3. in Laporte, F.L. de (Ed.), *Histoire naturelle des animaux articulés*. 672 pp., 67 pls. P. Duménil, Paris.

- Caloren, D.C. & Marshall, S.A. 1998. A revision of the New World species of *Clusiodes* Coquillett (Diptera: Clusiidae). *Studia Dipterologica*, **5**: 261–321.
- Coquillett, D.W. 1904. New Diptera from Central America. *Proceedings of the Entomological Society of Washington*, **6**: 90–98.
- Curtis, J. 1838. *British entomology; being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found. Volume 8: Diptera. Omaloptera*. Published by the author, London.
- Evenhuis, N.L. 1997. *Litteratura taxonomica Dipteriorum (1758–1930)*. 872 pp. Backhuys Publishers, Leiden.
- Fallén, C.F. 1810. *Specim. Entomolog. novam Diptera disponendi methodum exhibens quod Conf. Ampl. Facult. Phil. Lund, publicae disquisitioni subjiciunt. In Lyceo Carolino die IX Junii MDCCCX*. 26 pp. Berlingianis, Lundae.
- Fallén, C.F. 1823. *Agromyzides Sveciae. Quarum descriptionem Venia Ampl. Facult. Philos. Lund. In Lyceo Carolino d. XX Maji MDCCCXXIII*. 10 pp. Berlingianis, Lundae [=Lund].
- Frey, R. 1960. Studien über indoaustralische Clusiiden (Dipt.) nebst Katalog der Clusiiden. *Commentationes Biologicae*, **22**: 1–31.
- Johnson, C.W. 1913. A study of the Clusiodidae, (Heteroneuridae) of the Eastern United States. *Psyche*, **20**: 97–101.
- Lonsdale, O. & Marshall, S.A. 2007. Redefinition of the genera *Clusiodes* and *Hendelia* (Diptera: Clusiidae: Clusioidinae), with a review of *Clusiodes*. *Studia Dipterologica*, **14**: 117–159.
- Macquart, P.J.M. 1835. *Histoire naturelle des insectes. Tome deuxième. Diptères*. 703 pp., 12 pls. Roret, Paris.
- Meigen, J.W. 1830. *Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten*, Sechster Theil. IV, 1–401 pp. Schulz, Hamm.
- Melander, A.L. & Argo, N.G. 1924. Revision of the two-winged flies of the family Clusiidae. *Proceedings of the United States National Museum*, **64**: 1–54.
- Sasakawa, M. 1977. Family Clusiidae. Pp. 234–239 in Delfinado, M.D. & Hardy, D.E. (Eds.), *A catalog of the Diptera of the Oriental region*. 1155 pp. University Press of Hawaii, Honolulu.
- Soós, A. 1964. *Sobarocephaloides discolor* gen. nov., spec. nov., eine neue Clusiidae aus Costa-Rica, nebst einer Bestimmungstabelle der Gattungen der Familie Clusiidae (Diptera: Acalyptrata). *Reichenbachia*, **4**: 1–8.
- Soós, A. 1984. Family Clusiidae. Pp. 11–14 in Soós, A. & Papp, L. (Eds.), *Catalogue of Palearctic Diptera, Vol. 10: Clusiidae-Chloropidae*. 402 pp. Akadémiai Kiadó, The Publishing House of the Hungarian Academy of Sciences, Budapest.
- Steyskal, G.C. 1965. Family Clusiidae. Pp. 805–807 in Stone, A., Sabrosky, C.W., Wirth, W.W., Foote, R.H. & Coulson, J.R. (Eds.), *A Catalog of the Diptera of America North of Mexico*. iv, 1696 pp., U.S. Dept. of Agriculture, Agricultural Research Service, Washington, D.C.
- Westwood, J.O. 1840. *Synopsis of the genera of British Insects. Order XIII. Diptera Aristotle. (Antliata Fabricius. Haleriptera Clairv.)*. 158 pp. Longman, Orme, Brown, Green & Longmans, London.
- Zetterstedt, J.W. 1838. *Insecta Lapponica. Sectio III: Diptera. Dipterologis Scandinaviae amicis et popularibus carissimus*. vi, 1140 pp. L. Voss, Lipsiae [=Leipzig].
- Zetterstedt, J.W. 1848. *Diptera Scandinaviae disposita et descripta*, **7**: 2581–2934. Officina Lundbergiana, Lundae.

Acknowledgement of receipt of this application was published in BZN **65**: 161.

Comments on this case are invited for publication (subject to editing) in the Bulletin; they should be sent to the Executive Secretary, I.C.Z.N., c/o Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: iczn@nhm.ac.uk).